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# US DOE Distributed Energy and Electric Reliability Program Distribution and Interconnection R&D Annual Program Review

January 21, 22, and 23, 2003  
Ritz-Carlton Hotel–Pentagon City in Arlington, Virginia

## AGENDA

### Day 1 – Tuesday, January 21

#### Distribution and Interconnection R&D – Now and the Future

- 7 a.m.**                      **Conference Registration and Continental Breakfast**  
**8:30 a.m.**                      Welcome and Introductory Remarks – *William Parks, DOE*
- 8:30 a.m.–noon**              **Preparing for the Future – William Parks, DOE, chair**  
**8:45 a.m.**                      Keynote Utility Address: “Envisioning the Next Generation Grid: The Role of DER” – *Mark Fallek, vice president, DTE Energy*  
**9:15**                              Keynote Address: “Innovation, Energy Infrastructure, and DER” – *Pat Wood, chairman, Federal Energy Regulatory Commission*  
**10–10:30 a.m.**              **Break**  
**10:30 a.m.**                      “Bringing the Information Revolution to the Electricity Infrastructure” – *Nicholas Noecker, World-Wide Energy Industry executive, IBM Software Group*  
**11 a.m.**                        “Response and the Role of Distribution in the Future Infrastructure” – *Clark Gellings, executive vice president, EPRI*  
**11:30 a.m.**                      Panel Discussion: “The Coming Energy Infrastructure Revolution”  
**Noon–1:30 p.m.**              **Lunch (on your own); subcontractor posters in the foyer**
- 1:30–3:30 p.m.**              **Exploring the Territory – Gilbert C. Bindewald, DOE, chair**  
**1:30 p.m.**                      “The Distribution System of the Future: Where We Are Heading” – *Nicholas W. Miller, principal consultant, GE Power Systems Energy Consulting*  
**1:50 p.m.**                      “The Distribution System of the Future: Where Are We Heading?” – *Dr. Robert Kramer, chief scientist, NiSource Energy Technologies*  
   **Investing in the Future – Eric Lightner, DOE, chair**  
**2:10 p.m.**                      “How The Future Distribution System Will Change the Nation’s Electric Infrastructure” – *Murray W. Davis, vice president and chief technology officer, DTE Energy Technologies Inc.*  
**2:30 p.m.**                      “Our Customers Want More Reliability Than Today’s Distribution System Can Provide” – *Steven Greenberg, chief operating officer, RealEnergy Inc.*  
**2:50 p.m.**                      **Panel Discussion, Questions, and Comments**  
**3:20–3:40 p.m.**              **Break; subcontractor posters in the foyer**
- 3:40 – 5:00 p.m.**              **Renovating the Regulatory Environment – Eric Lightner, DOE, chair**  
**3:40 p.m.**                      “Environmental Regulation Driver or Barrier?” – *Joel Bluestein, president, Energy and Environmental Analysis Inc.*  
**4 p.m.**                            “Utility Regulation: An Update and View of the Regulatory Revolution” – *Daniel M. Adamson, Davis, Wright, & Tremaine, LLP*  
**4:20 p.m.**                      “State-Sponsored Anti-Competitive Behavior or Legacy Heuristics? Reconsideration of Tariff Structures For DER in Light of Today’s Public Interest” – *Nat Treadway, senior fellow & RED Index Project director, Center for the Advancement of Energy Markets*  
**4:20 p.m.**                      **Panel Discussion, Questions, Comments, and Wrap-Up – Joseph J. Iannucci, principal, Distributed Utility Associates**  
   (Summation of the day and how it relates to Wednesday’s program)
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- 5:30–7:30 p.m.**              **Subcontractor Annual Progress Poster Presentations and Evening Reception**
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## Distribution and Interconnection R&D Annual Program Review (cont.)

### Day 2 – Wednesday, January 22 Strategic Roadmap Planning Session

- 7:30 a.m. Conference Registration and Continental Breakfast**  
**8:30 a.m.** Welcome and Introduction – *Pat Hoffman, deputy program manager, DOE Distributed Energy Electric Reliability Program*  
**8:45 a.m.** The Draft Distribution and Interconnection R&D Strategic Roadmap – *Richard Friedman, Resource Dynamics Corp.*  
**9:30 a.m. Break; subcontractor posters in the foyer**
- 10–11:35 a.m. Background Perspectives on the Draft Strategic Road Map – Pat Hoffman, DOE, chair**  
**10 a.m.** DG and CHP Perspective – *Richard Brent, Solar Turbines Inc.*  
**10:25 a.m.** Utility Perspective – *Murray W. Davis, DTE Energy Technologies Inc.*  
**10:50 a.m.** Regulator and Developer Perspective – *Brent Alderfer, former state public utility commissioner and current “in the trenches” DG developer with Community Energy Inc.*  
**11:15 a.m.** Introduction and Organization of Afternoon Breakout Sessions – *R. Friedman*  
**11:30 a.m.–1 p.m. Lunch (on your own); subcontractor posters in the foyer**
- 1–5 p.m. Strategic Roadmap Breakout Discussion Sessions**

#### 1–2:45 p.m. Parallel Breakout Sessions – Section I

Track 1: Program Mission and Goals	Track 2: Interconnection Technology I	Track 3: Electrical Distribution Systems I
<ul style="list-style-type: none"><li>▪ Electric System Integration – SmartConnect™</li><li>▪ Cost and Performance of Interconnection</li><li>▪ Distribution System Reliability</li><li>▪ Standards Acceptance and Use</li></ul>	<ul style="list-style-type: none"><li>▪ Component Integration</li><li>▪ Plug-and-Play Interconnection</li><li>▪ Enterprise Energy Management</li><li>▪ Testing and Certification Standards</li></ul>	<ul style="list-style-type: none"><li>▪ DER Integration</li><li>▪ Relays, Protection Schemes, and Technologies</li><li>▪ Sensors</li><li>▪ Testing and Certification</li><li>▪ Standards</li></ul>

**2:45–3:15 p.m. Break; subcontractor posters in the foyer**

#### 3:15–5 p.m. Parallel Breakout Sessions – Section II

Track 4: Regulatory and Institutional Barriers	Track 5: Combined Session – Interconnection Technology Part II and Electrical Distribution Systems Part II
<ul style="list-style-type: none"><li>▪ Improved Business Practices</li><li>▪ Recognition of DER Benefits</li><li>▪ Streamlined DER Integration</li><li>▪ Integration of Customer Supply and Demand Solutions</li><li>▪ Equitable and Innovative DER Tariffs</li></ul>	<ul style="list-style-type: none"><li>▪ Adaptive, Intelligent Grid Support/Operation</li><li>▪ Advanced Grid Control</li><li>▪ Advanced SCADA</li><li>▪ Smart Substations</li></ul>

**5 p.m. Evening Adjournment**

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## Distribution and Interconnection R&D Annual Program Review (cont.)

### Closing Session – Thursday morning, January 23 Strategic Roadmap Wrap-Up

7:30 a.m. Conference Registration and Continental Breakfast

8:30–9:45 a.m. Presentation of Breakout Results – *Richard Friedman, chair*

- Program Mission and Goals
- Interconnection and Control Technology I
- Electrical Distribution Systems I
- Regulatory and Institutional Barriers
- Combined Session – Interconnection Technology II and Electrical Distribution Systems II

9:45–

10:15 a.m. Break

10:15–noon Roadmap General Discussion, Conclusions, and Next Steps

Noon DOE Meeting Concludes

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## IEEE SCC21 P1547 Series Work Group Meetings

Thursday Afternoon, January 23–Friday, January 24, 2003  
Ritz-Carlton Hotel–Pentagon City in Arlington, Virginia

### Agenda

#### January 23 – Thursday 1–5:15 p.m.

1 p.m. Registration  
1:15–5:15 p.m. **P1547.1 (Testing for P1547) Work Group Meeting**  
Welcoming Remarks; Status of P1547 Ballot Resolution  
Presentation and Discussion of P1547.1 – Draft 1

#### January 24 – Friday 7:30 a.m.–5 p.m.

7:30 a.m. Continental Breakfast and Registration  
8–11:45 a.m. **P1547.2 (Application Guide to P1547) Work Group Meeting**  
Welcoming Remarks; Status of P1547 Ballot Resolution  
Presentation and Discussion of P1547.2 Zeroth Draft

11:45–1 p.m. **Lunch On Your Own**

1–5 p.m. **P1547.3 (Monitoring/Information Exchange/Control) Work Group Meeting**  
Welcoming Remarks; Status of P1547 Ballot Resolution  
Presentation and Discussion of P1547.3 Information  
Draft Outline Development

5 p.m. IEEE Meeting Adjourns